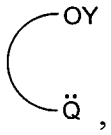
AMENDMENTS TO THE CLAIMS

1-31. (Cancelled)

32. (Currently Amended) A sensor~~composition~~, comprising:

a compound having a structure:



,

C comprising an organic moiety, Q̈ comprising~~being~~ one of nitrogen or oxygen, and Y being one of H or SiR_3, each R independently being one of hydrogen, alkyl, or aryl ~~and an organic moiety~~,

wherein at least a portion of the compound is able to ~~cyclize~~ undergo an intramolecular cyclization reaction upon reaction of the compound with an electrophile to form a cyclized product;

a source of energy applicable to the compound to cause an emission of radiation; and

an emission detector positioned to detect the emission ~~able to transform OY into an alkylating agent~~.

33. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the electrophile comprises a phosphate ester.

34. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the electrophile comprises an electrophilic phosphorous, sulfur, or arsenic atom.

35. (Currently Amended) The sensor~~composition~~ of claim 34, wherein the electrophilic phosphorous, sulfur, or arsenic atom is bonded to more than one electron-withdrawing moiety.

36. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the electrophile comprises an electrophilic carbon that is multiply-bonded another electrophilic atom.

37. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the electrophile is a chemical warfare agent.

38. (Currently Amended) The sensor~~composition~~ of claim 32, wherein Q̈ is nitrogen.

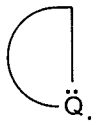
39. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 32, wherein Q̈ is oxygen.

40. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 32, wherein the compound is a polymer.

41. (Currently Amended) The sensor~~composition~~ of claim 32, wherein a shortest bond path between O and Q̈ has at least 5 atoms.

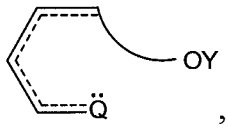
42. (Currently Amended) The sensor~~composition~~ of claim 41, wherein a shortest bond path between O and Q̈ has exactly 5 atoms.

43. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the compound is able to cyclize upon reaction of the compound with the electrophile to produce a product having a structure:



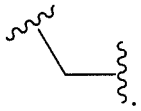
44. (Currently Amended) The sensor~~composition~~ of claim 32, wherein  comprises at least one conjugated group.

45. (Currently Amended) The sensor~~composition~~ of claim 32, wherein  has a structure:

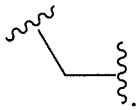


wherein the structure  comprises at least one conjugated group, and  comprises at least one carbon atom.

46. (Currently Amended) The sensor~~composition~~ of claim 45, wherein  comprises a structure:



47. (Currently Amended) The sensor~~composition~~ of claim 45, wherein  consists of a structure:



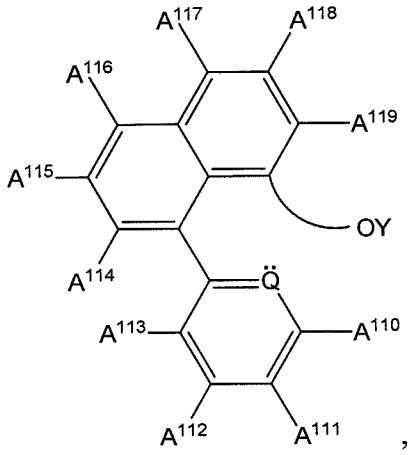
48. (Currently Amended) The sensor~~composition~~ of claim 45, wherein the structure  comprises at least two conjugated groups.

49. (Currently Amended) The sensor~~composition~~ of claim 48, wherein the two conjugated groups are not conjugated with each other.

50. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 48, wherein the two conjugated groups are phenolic groups.

51. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 48, wherein the structure  comprises at least three conjugated groups.

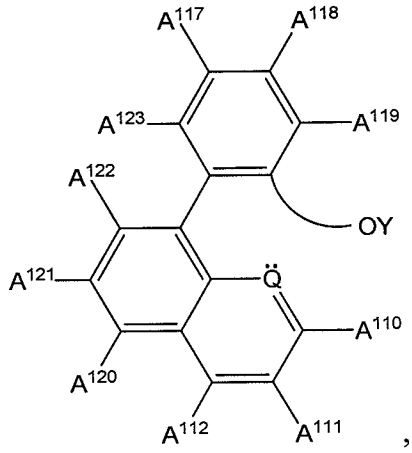
52. (Currently Amended) The sensor~~composition~~ of claim 45, wherein the compound comprises a structure:



,

wherein at least one or more of A^{110}, A^{111}, A^{112}, A^{113}, A^{114}, A^{115}, A^{116}, A^{117}, A^{118}, and A^{119} is one of hydrogen, an organic moiety, or a polymer.

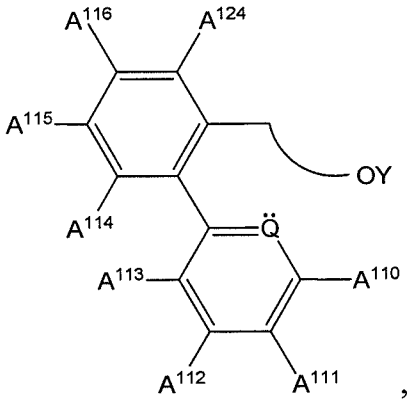
53. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 45, wherein the compound comprises a structure:



,

wherein at least one or more of A^{110}, A^{111}, A^{112}, A^{117}, A^{118}, A^{119}, A^{120}, A^{121}, A^{122}, and A^{123} is one of hydrogen, an organic moiety, or a polymer.

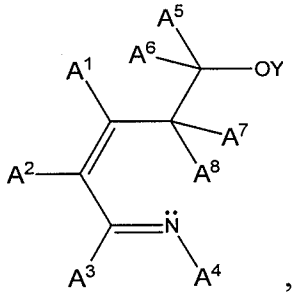
54. (Withdrawn; Currently Amended) The sensor~~composition~~ of claim 45, wherein the compound comprises a structure:



,

wherein at least one or more of A^{110}, A^{111}, A^{112}, A^{113}, A^{114}, A^{115}, A^{116} and A^{124} is one of hydrogen, an organic moiety, or a polymer.

55. (Currently Amended) The sensor~~composition~~ of claim 32, wherein the compound has a structure:

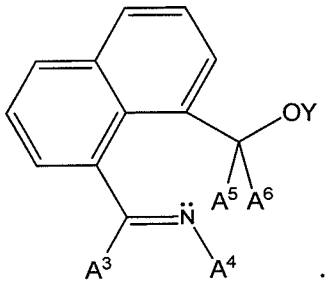


,

wherein at least one or more of A^1, A^2, A^3, A^4, A^5, A^6, A^7, and A^8 comprises at least one conjugated group.

56. (Currently Amended) The sensor~~composition~~ of claim 55, wherein each of A^5, A^6, A^7, and A^8 independently is hydrogen.

57. (Currently Amended) The sensor~~composition~~ of claim 55, wherein the compound has a structure:



58. (Currently Amended) The sensor~~composition~~ of claim 57, wherein each of A^5 and A^6 independently is hydrogen.

59. (Currently Amended) The sensor~~composition~~ of claim 57, wherein A^3 and A^4 together comprise a conjugated group.

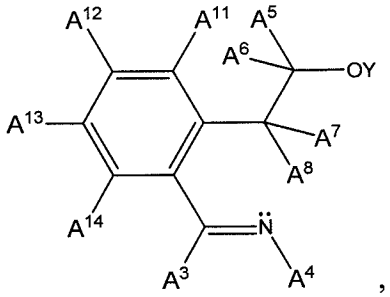
60. (Currently Amended) The sensor~~composition~~ of claim 59, wherein the conjugated group is cyclic.

61. (Currently Amended) The sensor~~composition~~ of claim 60, wherein the conjugated group is aromatic.

62. (Currently Amended) The sensor~~composition~~ of claim 55, wherein A^1 and A^2 together comprise a conjugated group.

63. (Currently Amended) The sensor~~composition~~ of claim 62, wherein the conjugated group is cyclic.

64. (Currently Amended) The sensor~~composition~~ of claim 55, wherein the compound has a structure:



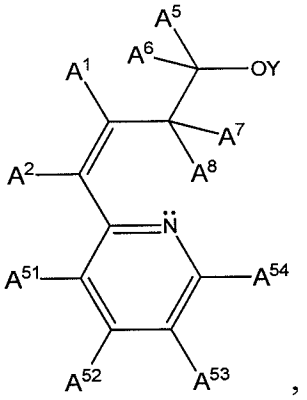
,

wherein each of A^{11}, A^{12}, A^{13}, and A^{14} independently comprise at least one atom.

65. (Currently Amended) The sensor~~composition~~ of claim 64, wherein at least one of A^{11}, A^{12}, A^{13}, and A^{14} comprises a conjugated group.

66-80. (Cancelled)

81. (Currently Amended) The sensor~~composition~~ of claim 55, wherein the compound has a structure:



,

wherein each of A^{51}, A^{52}, A^{53}, and A^{54} independently comprise at least one atom.

82-126. (Cancelled)

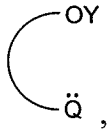
127. (Original) A method, comprising:

reacting a compound with an electrophile to produce a product having greater

emissivity than the compound, wherein the product comprises at least a portion of the compound that has been cyclized upon reaction with the electrophile.

128. (Original) A method, comprising:

cyclizing at least a portion of a compound by reacting the compound with an electrophile, the compound having a structure:



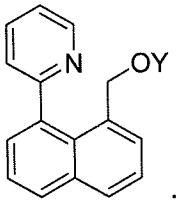
comprising an organic moiety, Q̈ being one of nitrogen or oxygen, and Y being one of H, an alkyl group, an alkoxy group, and SiR_3, each R independently being one of hydrogen and an organic moiety.

129-135. (Cancelled)

136. (New) The sensor of claim 32, wherein the intramolecular cyclization reaction comprises an intramolecular nucleophilic substitution reaction.

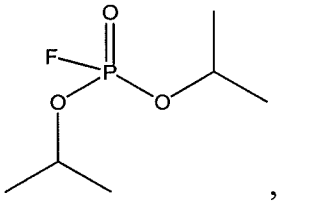
137. (New) The sensor of claim 32, wherein the cyclized product has a greater emissivity than the compound.

138. (New) The sensor of claim 32, wherein the compound has the following structure,

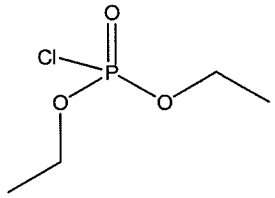


.

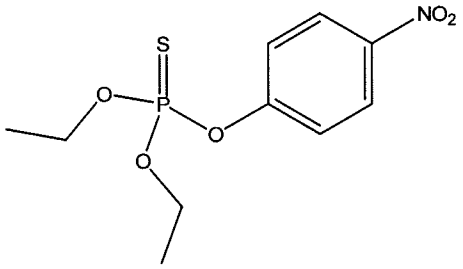
139. (New) The sensor of claim 32, wherein the electrophile is sarin, phosgene, soman, tabun, thionyl chloride,



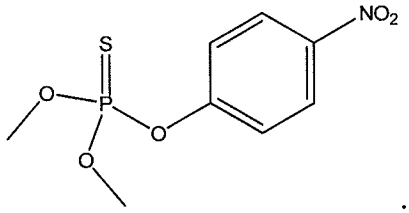
,



,



, or



.